NOKIA
Nseries

Nokia N91 8GB
Nokia N91-2

Contents

For your safety

Read these simple guidelines. Not following them may be dangerous or illegal. Read the complete user guide for further information.

SWITCH ON SAFELY Do not switch the device on when wireless phone use is prohibited or when it may cause interference or danger.

ROAD SAFETY COMES FIRST Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.

INTERFERENCE All wireless devices may be susceptible to interference, which could affect performance.

SWITCH OFF IN HOSPITALS Follow any restrictions. Switch the device off near medical equipment.

SWITCH OFF IN AIRCRAFT Follow any restrictions. Wireless devices can cause interference in aircraft.

SWITCH OFF WHEN REFUELING Do not use the device at a refueling point. Do not use near fuel or chemicals.

SWITCH OFF NEAR BLASTING Follow any restrictions. Do not use the device where blasting is in progress.

USE SENSIBLY Use only in the normal position as explained in the product documentation. Do not touch the antenna unnecessarily.

QUALIFIED SERVICE Only qualified personnel may install or repair this product.

ENHANCEMENTS AND BATTERIES Use only approved enhancements and batteries. Do not connect incompatible products.

WATER-RESISTANCE Your device is not water-resistant. Keep it dry.

BACK-UP COPIES Remember to make back-up copies or keep a written record of all important information.

CONNECTING TO OTHER DEVICES When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.

EMERGENCY CALLS Ensure the phone function of the device is switched on and in service. Press the [icon] as many times as needed to clear the display and return to the standby mode. Enter the emergency number, then press [icon]. Give your location. Do not end the call until given permission to do so.

About your device

The wireless device described in this guide is approved for use on the EGSM 900/1800/1900 and UMTS 2100 networks. Contact your service provider for more information about networks.

When using the features in this device, obey all laws and respect privacy and legitimate rights of others.

Copyright protections may prevent some images, music (including ringing tones), and other content from being copied, modified, transferred or forwarded.

When taking and using images or video clips, obey all laws and respect local customs as well as privacy and legitimate rights of others.

Warning: To use any features in this device, other than the alarm clock, the device must be switched on. Do not switch the device on when wireless device use may cause interference or danger.

Network Services

To use the phone you must have service from a wireless service provider. Many of the features in this device depend on features in the wireless network to function. These network services may not be available on all networks or you may have to make specific arrangements with your service provider before you can utilize network services. Your service provider may need to give you additional instructions for their use and explain what charges will apply. Some networks may have limitations that affect how you can use network services. For instance, some networks may not support all language-dependent characters and services.

Your service provider may have requested that certain features be disabled or not activated in your device. If so, they will not appear on your device menu. Your device may also have been specially configured. This configuration may include changes in menu names, menu order and icons. Contact your service provider for more information.

This device supports WAP 2.0 protocols (HTTP and SSL) that run on TCP/IP protocols. Some features of this device, such

as MMS, browsing, e-mail and content downloading via browser or over MMS, require network support for these technologies.

For availability and information on using SIM card services, contact your SIM card vendor. This may be the service provider, network operator, or other vendor.

Enhancements, batteries, and chargers

Always switch the device off and disconnect the charger before removing the battery.

Removing the battery before switching off the device may corrupt the hard drive.

Check the model number of any charger before use with this device. This device is intended for use when supplied with power from a DC-4, AC-3 and AC-4 charger and from an AC-1, ACP-7, ACP-8, ACP-9, ACP-12, LCH-8, LCH-9, or LCH-12 charger when used with the charger adapter CA-44.

The battery intended for use with this device is BL-5C.

Warning: Use only batteries, chargers, and enhancements approved by Nokia for use with this particular model. The use of any other types may invalidate any approval or warranty, and may be dangerous.

For availability of approved enhancements, please check with your dealer. When you disconnect the power cord of any enhancement, grasp and pull the plug, not the cord.

Your Nokia N91 8GB

Model number: Nokia N91-2

Hereinafter referred to as Nokia N91.

Congratulations on your purchase of the Nokia N91. Your device combines stereo sound, storage capacity for up to 6000 songs, over-the-air music downloads, access to your music collection and smartphone functionality with Wi-Fi and 2Mpix camera.

Hard drive

Your device is equipped with a 8 GB hard drive providing high capacity of storage room for different kind of files. Sensors in the device will stop the hard drive if the operating temperature is too low or too high, if the device is dropped, or if the back cover of the device is removed. Hard drives are fragile components that must be handled with care. All impacts caused by shock, vibration, bumping, and dropping or other mishandling of the device, as well as extreme temperatures, humidity and liquids, may cause the hard drive to malfunction and data to be lost or corrupted.

Do not remove the back cover when the device is switched on.

View memory consumption

Leaving applications running in the background increases the demand on battery power and reduces the battery life. To close applications running in the background, press and hold to show open applications, scroll to an application, press , and select **Yes** to confirm.

To view what types of data you have in the device and how much memory the different data types consume, press , and select **Tools** > **Hard drive**. Select **Options** > **Memory details** and scroll down to **Free memory** to view the amount of free memory in the device.

Memory low—free memory

The device notifies you if the memory is getting low. If the device memory starts to get low when your browser is open, then the browser is closed automatically to free some memory space.

To free device memory, transfer data to the hard drive in **File mgr.**. Mark files to be moved, select **Options** > **Move to folder** > **Hard drive**, and select a folder.

> ☼ **Tip!** To free memory from the device, use Image Store available in Nokia PC Suite to transfer images, and

video clips to a compatible PC. See the CD-ROM supplied in the sales package.

To remove data to free memory, use **File mgr.**, or go to the respective application. For example, you can remove the following:

- Messages from **Inbox**, **Drafts**, and **Sent** folders in **Messag.**
- Retrieved e-mail messages from the phone memory
- Saved Web pages
- Saved images, videos, or sound files
- Contact information
- Calendar notes
- Downloaded applications. See also 'Application manager', p. 114.
- Any other data that you no longer need

Essential indicators

Ψ—The phone is being used in a GSM network.

3G (network service)—The phone is being used in a UMTS network. See 'Network', p. 111.

$\boxtimes$—You have one or more unread messages in the **Inbox** folder in **Messag.**.

@ You have received new e-mail in the remote mailbox.

$\triangle$—There are messages waiting to be sent in the **Outbox** folder. See 'Outbox—messages waiting to be sent', p. 48.

$\blacktriangledown$—You have missed calls. See 'Voice calls', p. 31.

$\clubsuit$—Shown if **Ringing type** is set to **Silent** and **Message alert tone**, **IM alert tone**, and **E-mail alert tone** are set to **Off**. See 'Profiles—Set tones', p. 28.

$\blacksquare$**O**—The phone keypad is locked. See 'Keypad lock (keyguard)', p. 17.

$\heartsuit$ —You have an active clock alarm. See 'Clock', p. 15.

2—The second phone line is being used. See 'Call settings', p. 102.

$\longrightarrow$—All calls to the phone are diverted to another number. If you have two phone lines, the divert indicator for the first line is **1** and for the second **2**.

$\bigcap$—A headset is connected to the phone.

D—A data call is active.

$\stackrel{\Xi}{\div}$ —A GPRS or EDGE packet data connection is available.

$\stackrel{\Xi}{\equiv}$ —A GPRS or EDGE packet data connection is active.

$\stackrel{\Xi}{\not\equiv}$ —A GPRS or EDGE packet data connection is on hold. These icons are shown instead of the signal strength indicator (shown in the top left corner in the standby mode). See 'Packet data connections in GSM and UMTS networks', p. 103.

$\stackrel{3G}{\div}$ —A UMTS packet data connection is available.

$\stackrel{3G}{\equiv}$ —A UMTS packet data connection is active.

 —A UMTS packet data connection is on hold.

 —Bluetooth connectivity is **On**.

 —Data is being transmitted using a Bluetooth connection. See 'Bluetooth connectivity', p. 90.

 You have set the device to scan for wireless LANs, and a wireless LAN is available. See 'Wireless LAN', p. 95.

 A wireless LAN connection is active in a network that has encryption.

 A wireless LAN connection is active in a network that does not have encryption.

 —A USB connection is active.

 —You have an e-mail that has been read, waiting for you to retrieve to your phone.

 —You have an e-mail that has not been read, waiting for you to retrieve to your phone.

Nokia support on the Web

Check http://www.nokia.com/support or your local Nokia Web site for the latest version of this guide, additional information, downloads, and services related to your Nokia product.

Help

Your device has context-sensitive help. You can access the help from an application or from the main menu.

When an application is open, to access help for the current view, select **Options** > **Help**.

When you are reading the instructions, to switch between help and the application that is open in the background, press and hold .

To open help from the main menu, select **Tools** > **Help**. Select the desired application to view the help topics. To search for help topics using keywords, select **Options** > **Search by keyword**.

When you are reading a help topic, to view other related topics, scroll left or right with the joystick.

Tutorial

The tutorial gives you information about some of the features of your device. To access the tutorial in the menu, press , and select **My Own** > **Tutorial** and the section you want to view.

Clock

Press 𝄞 , and select **My Own** > **Clock**.

To set a new alarm, select **Options** > **Set alarm**. Enter the alarm time, and select **OK**. When the alarm is active, the ✇ sign is shown.

To turn off the alarm, select **Stop**. When the alarm tone sounds select **Snooze** to stop the alarm for five minutes, after which it resumes. You can do this a maximum of five times.

If the alarm time is reached while the device is switched off, the device switches itself on and starts sounding the alarm tone. If you select **Stop**, the device asks whether you want to activate the device for calls. Select **No** to switch off the device or **Yes** to make and receive calls. Do not select **Yes** when wireless phone use may cause interference or danger.

To cancel an alarm, select **Clock** > **Options** > **Remove alarm**.

Clock settings

To change the clock settings, select **Clock** > **Options** > **Settings**.

To change the clock shown in the standby mode, scroll down, and select **Clock type** > **Analogue** or **Digital**.

To allow the mobile phone network to update the time, date, and time zone information to your phone (network service), scroll down, and select **Network operator time** > **Auto-update**. For the **Network operator time** setting to take effect, the phone restarts.

To change the alarm tone, scroll down, and select **Clock alarm tone**.

World clock

Open **Clock**, and scroll right to open the world clock view. In the world clock view, you can view the time in different cities.

To add cities to the list, select **Options** > **Add city**. Enter the first letters of the city name. The search field appears automatically, and the matching cities are displayed. Select a city. You can add a maximum of 15 cities to the list.

To set your current city, scroll to a city, and select **Options** > **My current city**. The city is displayed in the clock main view, and the time in your phone is changed according to the city selected. Check that the time is correct and matches your time zone.

Volume and loudspeaker control

To increase or decrease the volume level, when you have an active call or are listening to a sound, press and hold [symbol] or [symbol] on the left side of the device.

The built-in loudspeaker allows you to speak and listen to the phone from a short distance without having to hold the phone to your ear, for example, having it on a table nearby. Sound applications use the loudspeaker by default.

Warning: Listen to music at a moderate level. Continuous exposure to high volume may damage your hearing. Do not hold the device near your ear when the loudspeaker is in use, because the volume may be extremely loud.

To locate the loudspeaker, see 'Keys and parts' in the Quick start guide.

To use the loudspeaker during a call, start a call, and select **Options** > **Activate loudsp.**.

To turn off the loudspeaker when you have an active call or are listening to a sound, select **Options** > **Activate handset**.

Before connecting a device other than original Nokia headphones to the headphone connector of your Nokia N91, adjust the volume level to less than half to prevent sound distortion or damage to the external device. Then you can readjust the volume to the appropriate level.

With some headsets you can only adjust the volume with the volume keys of the headset. If you use the volume keys of the device, the volume changes only after you detach the headset.

File manager

Many features of the phone use memory to store data. These features include contacts, messages, images, ringing tones, calendar and to-do notes, documents, and downloaded applications. The free memory available depends on how much data is already saved in the phone memory.

To browse files and folders in the device memory or hard drive, press [symbol], and select **Tools** > **File mgr.**. Scroll right to view the hard drive contents.

To move or copy files to a folder, press [symbol] and press the joystick at the same time to mark a file, and select **Options** > **Move to folder** or **Copy to folder**.

Many different file formats can be opened directly from File manager. However, to get the full functionality you should open the file in the corresponding application, not in File manager.

Icons in **File mgr.**:

Folder

Folder that has a subfolder

To find a file, select **Options** > **Find** , select the search location and enter the text that matches the file name.

>☀- **Tip!** You can use Nokia Phone Browser available in Nokia PC Suite to view the content of the device memory and hard drive of your phone. See the CD-ROM supplied in the sales package.

Keypad lock (keyguard)

To lock: Move the lock switch on top of the device next to the power key, to the left. When you move the switch when the slide cover is closed, all the keys are locked.When you open the slide cover, all the keys are active.

To unlock: Move the switch to the right.

When the keypad lock is on, calls still may be possible to the official emergency number programmed into your device. Enter the emergency number, and press ⌐ .

Music player

Music player supports files with extensions AAC, AAC+, eAAC+, MP3, WMA, MP4, M4A and DCF. **Music player** does not necessarily support all features of a file format or all the variations of file formats.

For more information on player, select **Options** > **Help** for context sensitive help.

Copyright protections may prevent some images, music (including ringing tones), and other content from being copied, modified, transferred or forwarded.

Play a song

1 Press , and select **Music**.
2 Move the joystick to navigate to a preferred song, artist or other category and press the joystick to open category lists.
3 Press ▶❙❙ Play/Pause key to play the selected song or list of songs.

To open the **Now playing** view of the player from any other view, press the Music access key. To return to previous view, press it again.

To select more music to play in **Now playing** view, select **Options** > **Go to Music menu**.

Controls

▶▶❙ —Press to go to the next song. To fast forward, press and hold.

❙◀◀ —Press once to return to the beginning of the song. To skip to the previous song, press within two seconds after a song has started. To rewind through the song, press and hold.

 —Press to decrease volume. Located on the left side of the device.

 —Press to increase volume. Located on the left side of the device.

To lock all the keys of the device, slide the lock switch on top of the device.

☼ **Tip!** You can also use the keys on the remote to control the device. The lock switch on the side of the remote control only locks the keys of the remote control.

Indicators

Icons in **Music player**:

↦♪ —Repeat one

↦ —Repeat all

↰—Shuffle on

↘—Loudspeaker muted (displayed in volume pop-up)

Play modes

Shuffle play

1 To switch random play on or off, select **Options** > **Shuffle**.
2 Select **Off** or **On**. The **Now playing** view is displayed with or without the shuffle icon ↰ in top right corner.

Repeat play

1 To repeat the current song, all songs, or to switch repeat off, select **Options** > **Repeat**.
2 Select **Off**, **All**, or **Repeat song**. The **Now playing** view is displayed with or without the repeat all ↦ or repeat song icon ↦♪ in the top right corner.

Modify sound

Equalizer

To modify the tone of the music playback, select **Options** > **Equaliser**.

To use one of the preset equalizer settings, select it with the joystick, and select **Activate**. Each preset has different settings on a 8–band graphic equalizer.

Modify equalizer presets

1 To create a new preset, select **Options**> **New preset**. To modify an existing preset select **Options** > **Edit**.
2 To adjust the frequency settings, move the joystick to the left or right to select low, mid, or, high frequency and up or down to increase or decrease the volume of the selected frequency band.
3 To reset the settings to their original values, select **Options** > **Reset to defaults**.

To delete a preset, scroll to it, and press ⌫. The default presets cannot be deleted.

Audio settings

To modify the balance and stereo image or to enhance bass, select **Options** > **Audio settings**.

Go to music shop

1 In **Music menu**, select **Options** > **Go to Music shop**. (This option is not available if music service Web address has not been defined. See 'Music shop settings', p. 20)
2 Choose from the options on the screen to search, browse, or select ringing tones.

Music shop settings

The settings may also be predefined and not editable.

You must have valid Internet connections in order to use this service. For more details, see 'Access points', p.104.

The availability and appearance of music shop settings may vary.

You also must have the Web address of the music shop defined in music shop settings.

To change or define the Web address for the music shop, in Music menu, select **Options** > **Go to Music shop**. (Music shop may also be available as a separate shortcut in Operator folder.)

In Music shop, select **Options** > **Settings**. Define the following:

Address:—Enter the Web address of the music shop service.

Default access point:—Select whether to connect automatically or ask before connecting. Only available with WLAN.

User name:—Enter your user name for music shop. If this field is left empty, you may have to enter your user name at login.

Password:—Enter your password for music shop. If this field is left empty, you may have to enter your password at login.

Transfer music

You can transfer music from a compatible PC or other compatible devices using a USB cable or Bluetooth connection. For details about connecting your device, see 'Connectivity', p.90.

The requirements of the PC:
- Windows® XP operating system (or later)
- a compatible version of Windows Media® player application. You can get more detailed information about Windows Media player compatibility from the N91 section of the Nokia Web site.
- Nokia PC Suite 6.7 or later. The sofware is available for installation on the sales package CD-ROM.

Connection method:

- USB data cable DKE-2 (miniUSB - USB)
- Bluetooth enabled compatible PC

Transfer from PC

You can use three different methods to transfer files:

- To view your device on PC as an external hard drive where you can transfer any data files, make the connection with cable or Bluetooth connectivity. If you are using the DKE-2 USB cable, select **Data transfer** as the connection method in your device. This method gives you total control of what you move and where, but you cannot see all the file information. You may not be able to transfer material that has been protected against copying. To refresh the Library after you have updated the song selection in your device, go to **Music menu**, and select **Options** > **Refresh Music library**.
- To synchronise music with Windows Media player, attach the USB cable and select **Media player** as the connection method. This method is good if you want to synchronise all or some of the music files between a compatible PC and your device.
- To use Nokia Music Manager in Nokia PC Suite, attach the DKE-2 USB cable and select **PC Suite** as the connection method.

USB cable connection

Connect the DKE-2 USB cable to a compatible PC and your device. If you are using Windows XP, your device is automatically recognised as an external hard drive. All the applications in your device are closed, and the phone goes offline.

To synchronise music with Windows Media player, select **Media player** as the connection method. To select the connection mode, use the joystick.

To change the default USB connection mode, press , select **Connect.** > **Data cbl.** and one of the options in **Data cable mode**.

Music transfer

Both Windows Media player and Nokia Music Manager in Nokia PC Suite have been optimized for transferring music files. For information about transferring music with Nokia Music Manager, see Nokia PC Suite User Guide provided on the CD-ROM with your Nokia N91.

The following instructions have been written based on information about the latest compatible Windows Media player version available at the time of writing. However, the details of the instructions especially concerning the locations and naming of different options may not be accurate and are subject to change. For more up-to-date

information see the corresponding Windows Media player guides and helps.

Manual synchronisation

After connecting your device with a compatible PC, Windows Media player selects manual sync, if there is less than 8 GB of free storage room in your device or if there is not enough storage room to fit your entire library. With manual sync, you select the songs and playlists that you want to move, copy, or remove.

The first time you connect your device you must enter a name that is used as the name of your device in Windows Media player.

To transfer selected manually:

1 After your device is connected with Windows Media player, select your device in the Navigation pane, if more than one device is connected.
2 Drag the songs or albums to the List pane for synchronisation. To remove songs or albums, select an item in the list and click **Remove from list** .
3 Check that the List pane contains the files you want to synchronise and that there is enough capacity on the device. Click **Start Sync.** to start the synchronisation.

Automatic synchronisation

To change the default file transfer option in Windows Media player, click the arrow under **Sync** , select your

device, and click **Set up Sync.** Clear or select the **Sync this device automatically** check box.

If the **Sync this device automatically** check box is selected and you connect your device, your N91 music library is automatically updated based on playlists you have selected in Windows Media player.

If no playlists have been selected, the whole PC music library is selected for syncronisation. Note that your PC library may contain more files that can fit to the hard drive of your Nokia N91. See Windows Media player help for more information.

The playlists on your device are not synchronised with the Windows Media player playlists.

Playlists

Create a playlist

To create a playlist of songs:

1 Select **Options** > **Create playlist** in **Playlists** view.
2 Enter a name for the playlist, and select **OK** or press the joystick.
3 Expand and collapse an artist title to find the songs you want to include in the playlist. Press the joystick to add items. To show the song list under an artist title, move

the joystick to the right. To hide the song list, move the joystick to the left.

4 When you have made your selections, select **Done**.

Add songs to a playlist

You can add songs to an existing playlist or first create a new playlist.

1 In a song list, select **Options** > **Add songs**.
2 Expand and collapse an artist title to find the songs you want to include in the playlist. Press the joystick to add items. To show the song list under an artist title, move the joystick to the right. To hide the song list, move the joystick to the left.
3 When you have made your selections, select **Done**.

🔆 **Tip!** You can even add songs to a playlist that is currently playing.

To search for a song start entering letters with the keypad.

Reorder songs

1 Select **Options** > **Reorder list** in a playlist view.
2 The selected song is ready to be moved. Scroll up or down to move it or leave it there.
3 Select **Drop**.
4 Scroll to the song you want to move.
5 Select **Grab**.

6 Scroll to a new position.
7 Select **Drop**.
8 When you have reordered the list, select **Done**.

🔆 **Tip!** To grab and drop, you can also press the joystick.

Remove songs from a playlist

You can remove songs from a playlist.

1 Scroll to a song in a playlist.
2 Select **Options** > **Remove from playlist**.
3 Select **Yes** to confirm. This deletion does not delete the song from the device; it only removes it from the playlist.

Add items from views to a playlist

You can add songs, albums, artists, genres, and composers from different views of the **Music menu** to existing or new playlists.

1 In a view opened from the **Music menu**, select an item.
2 Select **Options** > **Add to a playlist** > **Saved playlist** or **New playlist**.
3 If you selected **New playlist**, enter a name for the playlist, and select **OK**. If you selected **Saved playlist**, select the playlist and **OK**.

🔆 **Tip!** In some of the views you can select multiple songs to be added by selecting **Options** > **Mark/ Unmark** > **Mark**.

Music player

🔅 **Tip!** You can add a song that you are currently listening to to a playlist.

Playlist details

In **Playlists** view, Select **Options** > **Playlist details**. The following information is displayed:

Name—The name of the playlist

Songs—The current number of songs in the playlist

Location—The location of the playlist on the hard drive

Date—The date the playlist was last modified

Time—The time the playlist was last modified

Automatic playlists

The following playlists appear in the playlist view automatically:

Most played tracks—Includes the 40 most-played songs listed from the most recently played songs

Recent tracks—Includes 40 most recently played songs in reverse order, ending with the most recently played song.

Recent additions—Includes songs that you have added to the library within the past week.

Available options

The following items are available as options in different views of Music player.

Go to Now playing—Opens a view that displays information about the song that is currently being played

Go to Music shop—Opens wireless connection to a Web shop, where you can search for, browse, and purchase music

Refresh Music library—Updates the library list by scanning the hard drive for new songs and removing broken links

Song details/**Playlist details**/**Music library details**—Displays information about the selected item

Help—Opens the help application

Create playlist—Opens a view where you can create a new playlist

Send—Allows you to send the selected item to another compatible device

Delete—Removes the selected item after confirmation. The song is permanently deleted from the hard drive.

Rename—Renames the selected item

Add to a playlist—Add the selected item to an existing playlist or new playlist

Album art—Opens a view which will show you album art currently attached to the selected album or song You can change or add album art using images on your phone.

Mark/Unmark—Allows you to select several items for action

Set as ringing tone—Selects the selected song as the ringing tone of the active profile. If you select songs from the hard drive to be used as ringing tones, they may not work with vibra. For optimal performance, store the ringing tones in the device memory.

Reorder list—Rearrange the songs of a playlist

Options only in Now Playing view

Go to Music menu—Opens the **Music menu** view

Shuffle—Switches the shuffle mode on or off. In shuffle mode the songs are played in random order.

Repeat—Repeats the song or all songs in the list that is currently being played.

Equaliser—Opens a view where you can adjust the sound frequency balance.

Audio settings—Opens a view where you can change the sound balance, stereo image and bass response.

Start visualisation—Opens a list of available visualizations.

Rename items

1 Select an **Artist**, **Album**, **Genre**, or **Composer** from the list.
2 Select **Options** > **Rename**.
3 Enter the new name, and select **OK**. All songs belonging to the selected artist, album, genre, or composer are updated.

View and edit song details

In a song view, Select **Options** > **Song details**. The following information is displayed and editable.

Song name—The name of the song

Artist—The name of the artist

Album—The name of the album to which this song belongs

Track number—The song position in the album to which this song belongs

Year—The year in which the album was released

Genre—The style category to which this song belongs

Composer—The name of the composer of this song

Comment—Any other information about this song

To view details like **Format**, **Duration**, and **Copyright**, select **Options** > **View file details** in **Song details** view.

Library details

In **Music menu** select **Options** > **Music library details**. The following information is displayed:

Songs—The current number of songs in the library

Duration—The length of current songs together

Used—The total size of the files in the music libray

Available—Available hard disk space in gigabytes

Refreshed—The date when the libraray was last modified

Set a song as a ringing tone

1 Select a song.
2 Select **Options** > **Set as ringing tone**. The selected song has been set as the ringing tone for the active profile.

Visualization

1 In **Now playing** view, select **Options** > **Start visualisation**.
2 Select one of the available visulizations.

3 Press **Close** to return to **Now playing** view.

Change album art

1 Select a song.
2 Select **Options** > **Album art**.
3 Select **Options** > **Change**.
4 Scroll throough images from your Gallery, and select **Select:**.
5 To restore the original album art, select **Restore original**.

About encoded audio

Applications like Windows Media player and Nokia Audio Manager encode audio files with codecs like WMA or MP3 to save storage space. The encoding is done by removing those parts of the audio signal that are not audible or only barely audible by human ear.

Regardless of the encoder and codec quality, the sound quality of the resulting file is not as good as the original.

The basic codecs supported by this device are AAC, WMA, and MP3. All of these have different variations.

Bitrates

When encoding audio, the quality of the resulting sound depends on the sample rate and bit rate used for the encoding. Sample rate is expressed as thousands of samples per second (kHz), and for CD music the sample rate is fixed at 44.1 kHz. Bit rate is expressed as kilobits per second (Kbps). The higher the bitrate, the better the sound quality.

The required quality level may depend on your demands, the headphones used, and the surrounding noise. For MP3s a bitrate between 128 and 192 Kbps usually gives results good enough for listening to pop music with your device. WMA or AAC generally gives a similar result as MP3 with one step lower bitrate (96-160 Kbps). Variations of AAC, such as AAC+ and enhanced AAC+ (eAAC+) provide CD quality audio at bitrates as low as 48 Kbps. Classical music and music with nuances usually require a higher bitrate than basic pop music.

For speech or other sources where the quality of the sound is less important than saving storage space, you can use bitrates between 8 and 64 Kbps. At low bitrates WMA or AAC generally gives better results than MP3.

Variable bitrate

Your device also supports variable bitrate (VBR). Variable bitrate means that the bit rate of the encoding varies with the complexity of the encoded material. When using VBR, the encoding is optimized to preserve a constant audio quality throughout the track, rather than losing quality for complex music sections as with constant bitrate (CBR) encoding.

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Personalize your device

Your service provider may have requested that certain features be disabled or not activated in your device. If so, they will not appear on your device menu. Your device may also have been specially configured for your network provider. This configuration may include changes in menu names, menu order, and icons. Contact your service provider for more information.

Profiles—Set tones

To set and customize the ringing tones, message alert tones, and other tones for different events, environments, or caller groups, press , and select **Tools** > **Profiles**. If the currently selected profile is other than **General**, the profile name is shown at the top of the display in the standby mode.

To change the profile, press in the standby mode. Scroll to the profile you want to activate, and select **OK**.

To modify a profile, press , and select **Tools** > **Profiles**. Scroll to the profile, and select **Options** > **Personalise**. Scroll to the setting you want to change, and press the joystick to open the choices. Tones stored on the hard drive are indicated with . You can scroll through the tone list and listen to each one before you make your selection. To stop the sound, press any key.

When you choose a tone, **Tone downloads** opens a list of bookmarks. You can select a bookmark and connect to a Web page to download tones.

If you want the caller's name to be said when your device rings, select **Options** > **Personalise**, and set **Say caller's name** to **On**. The caller's name must be saved in **Contacts**.

To create a new profile, select **Options** > **Create new**.

If listen to music and **Music** profile is selected, you only hear a beep for incoming calls and all the other alert tones are switched off.

Offline profile

The **Offline** profile lets you use the device without connecting to the wireless network. When you activate the **Offline** profile, the connection to the wireless network is turned off, as indicated by in the signal strength indicator area. All wireless phone signals to and from the device are prevented. If you try to send messages, they are placed in the outbox to be sent later.

When you have activated the **Offline** profile, you can still use the wireless LAN (if available) to read your e-mail or browse on the Internet, for example. Remember to comply with any applicable safety requirements when establishing and using a wireless LAN connection. See 'Wireless LAN', p. 95.

Warning: In the offline profile you cannot make (or receive) any calls, except make calls to certain emergency numbers, or use other features that require network coverage. To make calls, you must first activate the phone function by changing profiles. If the device has been locked, enter the lock code.

Warning: Your device must be switched on to use **Offline** profile. Do not switch the device on when wireless device use is prohibited or when it may cause interference or danger.

To leave the **Offline** profile, press , and select **Tools** > **Profiles**, scroll to another profile, and select **Options** > **Activate** > **Yes**. The device re-enables wireless transmissions (providing there is sufficient signal strength). If Bluetooth connectivity is activated before entering the **Offline** profile, it will be deactivated. Bluetooth connectivity is automatically reactivated after leaving the **Offline** profile. See 'Settings', p. 91.

Change the look of your device

To change the look of the display, such as the wallpaper and icons, press , and select **Tools** > **Themes**. The active theme is indicated by . In **Themes** you can group together elements from other themes or select images from the **Gallery** to personalize themes further. The themes on the hard drive are indicated by .

To open a browser connection and download more themes, select **Theme downloads**.

To activate a theme, scroll to it, and select **Options** > **Apply**. To preview a theme before activating it, select **Options** > **Preview**.

To edit themes, scroll to a theme, and select **Options** > **Edit** to change the **Wallpaper** and **Power saver** settings.

To restore the selected theme to its original settings, select **Options** > **Restore orig. theme** when you edit a theme.

Active standby mode

Use your standby display for fast access to your most frequently used applications. By default, the active standby mode is on.

Press , select **Tools** > **Settings** > **Phone** > **Standby mode** > **Active standby**, and press the joystick to switch the active standby on or off.

The active standby display is shown with default applications across the top of the screen, and calendar, to-do, and player events are listed below.

Scroll to an application or event, and press the joystick.

The standard joystick shortcuts available in the standby mode cannot be used when the active standby mode is on.

To change the default application shortcuts, press , select **Tools** > **Settings** > **Phone** > **Standby mode** > **Active standby apps.**, and press the joystick.

Some shortcuts may be fixed, and you cannot change them.
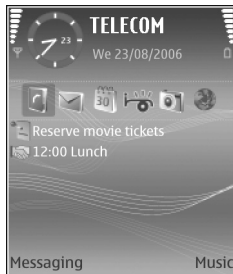
Make calls

Voice calls

☼ **Tip!** To increase or decrease the volume during a call, press the keys on the left side of the device.

1 In the standby mode, enter the phone number, including the area code. Press ☐ to remove a number. For international calls, press ✳ twice for the **+** character (replaces the international access code), and enter the country code, area code (omit the leading zero if necessary), and phone number.
2 Press ☐ to call the number.
3 Press ☐ to end the call (or to cancel the call attempt).

☼ **Tip!** You can also use the ☐ key on the remote control to answer and end a call.

Pressing ☐ always ends a call, even if another application is active.

☼ **Tip!** To end a call when you are not using the headset, press — during the call, and close the slide within 15 seconds. Closing the slide when you are using the headset does not end the call.

To make a call from **Contacts**, press ♫ , and select **Contacts**. Scroll to the desired name, or enter the first letters of the name to the search field. Matching contacts are listed. Press ☐ to call.

You must copy the contacts from your SIM to **Contacts** before you can make a call this way. See 'Copy contacts', p. 36.

To call your voice mailbox (network service), press and hold **1** in the standby mode. See also 'Call diverting', p. 110.

☼ **Tip!** To change the phone number of your voice mailbox, press ♫ , and select **Tools** > **Voice mail** > **Options** > **Change number**. Enter the number (obtained from your service provider), and select **OK**.

To call a recently dialled number in the standby mode, press ☐ to access a list of the 20 last numbers you called or attempted to call. Scroll to the number you want, and press ☐ to call the number.

Make a conference call

1 Make a call to the first participant.
2 To make a call to another participant, select **Options** > **New call**. The first call is automatically put on hold.

3 When the new call is answered, to join the first participant in the conference call, select **Options** > **Conference**.

To add a new person to the call, repeat step 2, and select **Options** > **Conference** > **Add to conference**. Your device supports conference calls between a maximum of six participants, including yourself.

To have a private conversation with one of the participants, select **Options** > **Conference** > **Private**. Scroll to a participant, and select **Private**. The conference call is put on hold on your device. The other participants can still continue the conference call. Once you have finished the private conversation, select **Options** > **Conference** > **Add to conference** to return to the conference call.

To drop a participant, select **Options** > **Conference**> **Drop participant**, scroll to the participant, and select **Drop**.

4 To end the active conference call, press .

Speed dial a phone number

To activate speed dialling, press , and select **Tools**> **Settings** > **Call** > **Speed dialling** > **On**.

To assign a phone number to one of the speed dialling keys (**2** − **9**), press , and select **Tools** > **Spd. dial**. Scroll to the key to which you want to assign the phone

number, and select **Options** > **Assign**. **1** is reserved for the voice mailbox.

To call in the standby mode, press the speed dial key and .

Voice dialling

Your device supports enhanced voice commands. Enhanced voice commands are not dependent on the speaker's voice, so the user does not record voice tags in advance. Instead, the device creates a voice tag for the entries in contacts, and compares the spoken voice tag to it. The voice recognition in the device adapts to the main user's voice to recognise the voice commands better.

The voice tag for a contact is the name or nickname that is saved on the contact card. To listen to the synthesised voice tag, open a contact card, and select **Options** > **Play voice tag**.

Make a call with a voice tag

 Note: Using voice tags may be difficult in a noisy environment or during an emergency, so you should not rely solely upon voice dialling in all circumstances.

When you use voice dialling, the loudspeaker is in use. Hold the device at a short distance away when you say the voice tag.

1 To start voice dialling, press and hold the ▬ right selection key. If you are using a compatible headset with the headset key, press and hold the headset key to start voice dialling.
2 A short tone is played, and **Speak now** is displayed. Say clearly the name or nickname that is saved on the contact card.
3 The device plays a synthesised voice tag for the recognised contact in the selected device language, and displays the name and number. After a timeout of 1.5 seconds, the device dials the number.
   If the recognised contact was not correct, select **Next** to view a list of other matches, or **Quit** to cancel voice dialling.

If several numbers are saved under the name, the device selects the default number, if it has been set. Otherwise the device selects the first available number of the following: **Mobile**, **Mobile (home)**, **Mobile (business)**, **Telephone**, **Tel. (home)**, and **Tel. (business)**.

Answer or reject a call

To answer the call, press 📞 or open the slide cover.

To mute the ringing tone when a call comes in, select **Silence**.

☼ **Tip!** You can also use the 📞 key on the remote control to answer and end a call.

If you do not want to answer a call, press 📞 to reject it. If you have activated the **Call divert** > **If busy** function to divert calls, rejecting an incoming call also diverts the call. See 'Call diverting', p. 110.

When you reject an incoming call, you can also select **Send text message** to send a message to the caller informing why you cannot answer the call. You can edit the text before sending it. To set up this option and write a standard text message, see 'Call settings', p. 102.

Call waiting (network service)

You can answer a call while you have another call in progress if you have activated **Call waiting** in **Settings** > **Call** > **Call waiting**.

☼ **Tip!** To change the device tones for different environments and events, for example, when you want your device to be silent, see 'Profiles—Set tones', p. 28.

To answer the waiting call, press 📞 . The first call is put on hold.

To switch between the two calls, select **Swap**. Select **Options** > **Transfer** to connect an incoming call or a call on hold with an active call and to disconnect yourself from

the calls. To end the active call, press ☐ . To end both calls, select **Options** > **End all calls**.

Options during a voice call

Many of the options that you can use during a voice call are network services. Select **Options** during a call for some of the following options: **Mute** or **Unmute**, **Answer**, **Reject**, **Swap**, **Hold** or **Unhold**, **Activate handset**, **Activate loudsp.**, or **Activate handsfree** (if a compatible headset with Bluetooth connectivity is attached), **End active call** or **End all calls**, **New call**, **Conference**, and **Transfer**. Select from the following:

Replace—To end an active call and replace it by answering the waiting call.

Send MMS (in UMTS networks only)—To send an image or a video in a multimedia message to the other participant of the call. You can edit the message and change the recipient before sending. Press ☐ to send the file to a compatible device (network service).

Send DTMF—To send DTMF tone strings, for example, a password. Enter the DTMF string or search for it in **Contacts**. To enter a wait character (**w**) or a pause character (**p**), press ∗ repeatedly. Select **OK** to send the tone.

☀ **Tip!** You can add DTMF tones to the **Phone number** or **DTMF** fields in a contact card.

Contacts (Phonebook)

Press ⠿, and select **Contacts**. In **Contacts** you can add a personal ringing tone or a thumbnail image to a contact card. You can also create contact groups, which allow you to send text messages or e-mail to many recipients at the same time. You can add received contact information (business cards) to contacts. See 'Data and settings', p. 44. Contact information can only be sent to or received from compatible devices.

☼ **Tip!** Regularly back up the device information. You can restore the information, such as contacts, to the device later. You can use Nokia PC Suite to back up your contacts to a compatible PC. See the CD-ROM supplied with your device.

Save names and numbers

1 Select **Options** > **New contact**.
2 Fill in the fields that you want, and select **Done**.

To edit contact cards in **Contacts**, scroll to the contact card you want to edit, and select **Options** > **Edit**.

To delete a contact card in **Contacts**, select a card, and press ⌧ . To delete several contact cards at the same time, press and hold ✎ and press the joystick to mark eachcontact you want to delete. Press ⌧ to delete the marked contacts.

☼ **Tip!** To add and edit contact cards, use Nokia Contacts Editor available in Nokia PC Suite. See the CD-ROM supplied with your device.

To attach a small thumbnail image to a contact card, open the contact card, and select **Options** > **Edit** > **Options** > **Add thumbnail**. The thumbnail image is shown when the contact calls.

☼ **Tip!** Speed dialling is a quick way to call frequently used numbers. You can assign speed dialling keys to eight phone numbers. See 'Speed dial a phone number', p. 32.

☼ **Tip!** To send contact information, select the card you want to send. Select **Options** > **Send** > **Via text message**, **Via multimedia**, **Via e-mail**, or **Via Bluetooth**. See 'Messaging', p. 38 and 'Send data using Bluetooth connectivity', p. 92.

To add a contact to a group, select **Options** > **Add to group:** (shown only if you have created a group). See 'Create contact groups', p. 37.

To view the amount of contacts, groups, and the available memory, select **Contacts** > **Options** > **Contacts info**.

Default numbers and addresses

You can assign default numbers or addresses to a contact card. In this way if a contact has several numbers or addresses, you can easily call or send a message to the contact at a certain number or address. The default number is also used in voice dialing.

1. In contacts, scroll to a contact, and press the joystick.
2. Select **Options** > **Defaults**.
3. Select a default to which you want to add a number or an address, and select **Assign**.
4. Select a number or an address you want to set as a default.

The default number or address is underlined in the contact card.

SIM directory and SIM services

For availability and information on using SIM card services, contact your SIM card vendor. This may be the service provider, network operator, or other vendor.

Press , and select **Contacts** > **Options** > **SIM contacts** > **SIM directory** to see the names and numbers stored on the SIM card. In the SIM directory you can add, edit, or copy numbers to contacts, and you can make calls.

To view the list of fixed dialing numbers, select **Options** > **SIM contacts** > **Fixed dialling contacts**. This setting is only shown if supported by your SIM card.

To restrict calls from your device to selected phone numbers, select **Options** > **Activ. fixed dialling**. To add new numbers to the fixed dialing list, select **Options** > **New SIM contact**. You need the PIN2 code for these functions.

When you use **Fixed dialling**, packet data connections are not possible, except when sending text messages over a packet data connection. In this case, the message center number and the recipient's phone number must be included on the fixed dialing list.

When fixed dialing is activated, calls may be possible to the official emergency number programmed into your device.

Copy contacts

To copy names and numbers from a SIM card to your device, press , and select **Contacts** > **Options** > **SIM contacts** > **SIM directory**. Select the names you want to copy and **Options** > **Copy to Contacts**.

To copy contacts to your SIM card, press ![key], and select **Contacts**. Select the names you want to copy and **Options** > **Copy** > **To SIM directory**. Only the contact card fields supported by your SIM card are copied.

To edit phone number to which calls from your device are allowed, press ![key], and select **Contacts** > **Options** > **SIM contacts** > **Fixed dialling contacts**. Scroll to the contact and select **Options** > **Edit**. You may need your PIN2 code to edit your fixed dialling numbers.

>☼< **Tip!** You can synchronise your contacts to a compatible PC with Nokia PC Suite. See the CD-ROM supplied with your device.

Add ringing tones for contacts

When a contact or group member calls you, the device plays the chosen ringing tone (if the caller's telephone number is sent with the call and your device recognises it).

1 Press the joystick to open a contact card, or go to the groups list, and select a contact group.
2 Select **Options** > **Ringing tone**. A list of ringing tones opens.
3 Select the ringing tone you want to use for the individual contact or the selected group.

To remove the ringing tone, select **Default tone** from the list of ringing tones.

Create contact groups

1 In **Contacts**, move the joystick right to open the groups list.
2 Select **Options** > **New group**.
3 Write a name for the group or use the default name **Group** (number), and select **OK**.
4 Open the group, and select **Options** > **Add members**.
5 Scroll to a contact, and press the joystick to mark it. To add multiple members at a time, repeat this action on all the contacts you want to add.
6 Select **OK** to add the contacts to the group.

To rename a group, select **Options** > **Rename**, enter the new name, and select **OK**.

Remove members from a group

1 In the groups list, open the group you want to modify.
2 Scroll to the contact, and select **Options** > **Remove from group**.
3 Select **Yes** to remove the contact from the group.

>☼< **Tip!** To check to which groups a contact belongs, scroll to the contact, and select **Options** > **Belongs to groups**.

Messaging

Press \textifsym{} , and select **Messag.**. In **Messag.**, you can create, send, receive, view, edit, and organise text messages, multimedia messages, e-mail messages, and special text messages containing data. You can also receive messages and data using Bluetooth connectivity, receive Web service messages, cell broadcast messages, and send service commands.

Note: Only devices that have compatible features can receive and display multimedia messages. The appearance of a message may vary depending on the receiving device.

When you open **Messag.**, you can see the **New message** function and the following folders:

Inbox—Received messages, except e-mail and cell broadcast messages, are stored here. E-mail messages are stored in the **Mailbox**.

My folders—For organizing your messages into folders.

Mailbox—Connect to your remote mailbox to retrieve your new e-mail messages or view your previously retrieved e-mail messages offline. See 'E-mail', p. 51.

Drafts—Draft messages that have not been sent are stored here.

Sent—The last 20 messages that were sent, excluding messages sent using Bluetooth connectivity, are stored here. To change the number of messages to be saved, see 'Other settings', p. 53.

Outbox—Messages waiting to be sent are temporarily stored here.

Example: Messages are placed in the outbox when your device is outside network coverage. You can also schedule e-mail messages to be sent the next time you connect to your remote mailbox.

Reports—You can request the network to send you a delivery report of the text messages and multimedia messages you have sent (network service). Receiving a delivery report of a multimedia message that has been sent to an e-mail address may not be possible.

Tip! When you have opened any of the default folders, to switch between the folders, move the joystick to the right or left.

To enter and send service requests (also known as USSD commands), such as activation commands for network

services, to your service provider, select **Options** > **Service command** in the main view of **Messag.**.

Cell broadcast (network service) allows you to receive messages on various topics, such as weather or traffic conditions from your service provider. For available topics and relevant topic numbers, contact your service provider. In the main view of **Messaging**, select **Options** > **Cell broadcast**. In the main view you can see the status of a topic, a topic number, name, and whether it has been flagged (▶) for follow-up.

Cell broadcast messages cannot be received in UMTS networks. A packet data connection may prevent cell broadcast reception.

Write text

ABC, **abc**, and **Abc** indicate the selected character mode. **123** indicates the number mode.

Traditional text input

The indicator ⬚ is shown on the top right of the display when you are writing text using traditional text input.

- Press a number key (**1** − **9**) repeatedly until the desired character appears. There are more characters available for a number key than are printed on the key.
- To insert a number, press and hold the number key.

- To switch between letter and number mode, press and hold **#** .
- If the next letter is located on the same key as the present one, wait until the cursor appears (or quickly move the joystick to the right to end the time-out period), and enter the letter.
- To erase a character, press ⬚ . Press and hold ⬚ to clear more than one character.
- The most common punctuation marks are available under **1** . Press **1** repeatedly to reach the desired punctuation mark.
  Press **∗** to open a list of special characters. Use the joystick to move through the list, and press **Select** to select a character.
- To insert a space, press **0** . To move the cursor to the next line, press **0** three times.
- To switch between the different character modes, press **#** .

Predictive text input—Predictive text

You can enter any letter with a single key press. Predictive text input is based on a built-in dictionary to which you can also add new words. ⬚ is shown on the top right of the display when you write text using predictive text input.

1 To activate predictive text input, press ✎, and select **Predictive text on**. This activates predictive text input for all editors in the device.

2 To write the desired word, press the keys **2** – **9**. Press each key only once for one letter. For example, to write 'Nokia' when the English dictionary is selected, press **6** for N, **6** for o, **5** for k, **4** for i, and **2** for a.

The word suggestion changes after each press.

3 When you finish writing the word correctly, scroll right to confirm it, or press **0** to add a space. If the word is not correct, press ✶ repeatedly to view each matching word, or press ✎, and select **Predictive text** > **Matches**.

If the **?** character is shown after the word, the word is not in the dictionary. To add a word to the dictionary, select **Spell**, enter the word using traditional text input, and select **OK**. The word is added to the dictionary. When the dictionary is full, a new word replaces the oldest added word.

4 Start writing the next word.
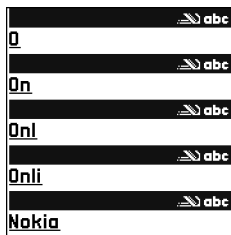
> ☀ **Tip!** To set predictive text input on or off, quickly press **#** twice.

Tips on text input

To insert a number in letter mode, press and hold the desired number key.

To switch between the different character modes, press **#**.

To erase a character, press ⬅. Press and hold ⬅ to clear more than one character.

Press ✶ to open a list of special characters.

> ☀ **Tip!** To insert several special characters at the same time, press **5** when you select each character.

The most common punctuation marks are available under **1**. Press **1**, then ✶ repeatedly to search for the desired punctuation mark.

> ☀ **Tip!** Predictive text input tries to guess which commonly used punctuation mark (**.,?!'**) is needed. The order and availability of the punctuation marks depend on the language of the dictionary.

Press ✶ repeatedly to view the matching words the dictionary has found one by one.

Press ✎, select **Predictive text**, and scroll right to select one of the following options:

Matches—To view a list of words that correspond to your key presses.

Insert word—To add a word to the dictionary by using traditional text input. When the dictionary becomes full, a new word replaces the oldest added word.

Edit word—To edit the word using traditional text input. This is available if the word is active (underlined).

ゝ☆ **Tip!** When you press ✎, the following options appear (depending on the editing mode): **Predictive text** (predictive text input), **Alpha mode** (traditional text input), **Number mode**, **Cut** (if text has been selected), **Copy** (if text has been selected), **Paste** (when text has been cut or copied first), **Insert number**, **Insert symbol**, and **Writing language:** (changes the input language for all editors in the phone).

Write compound words

Write the first half of a compound word; to confirm it, move the joystick right. Write the last part of the compound word. To complete the compound word, press ❰ to add a space.

Turn predictive text input off

Press ✎, and select **Predictive text** > **Off** to turn predictive text input off for all editors in the phone.

Copy text to clipboard

1 To select letters and words, press and hold ✎. At the same time, move the joystick left or right. As the selection moves, text is highlighted.
2 To copy the text to the clipboard, while still holding ✎, select **Copy**.
3 To insert the text into a document, press and hold ✎, and select **Paste**, or press ✎ once, and select **Paste**. To select lines of text, press and hold ✎. At the same time move the joystick up or down. To remove the selected text from the document, press ◻.

Write and send messages

The appearance of a multimedia message may vary, depending on the receiving device.

Copyright protections may prevent some images, music (including ringing tones), and other content from being copied, modified, transferred or forwarded.

ゝ☆ **Tip!** You can start to create a message from any application that has the option **Send**. Select a file (image or text) to be added to the message, and select **Options** > **Send**.

Before you can create a multimedia message or write an e-mail, you must have the correct connection settings in

place. See 'Receive MMS and e-mail settings', p. 43 and 'E-mail', p. 51.

The wireless network may limit the size of MMS messages. If the inserted picture exceeds this limit, the device may make it smaller so that it can be sent by MMS.

1 Select **New message** and one of the following:
   Text msg.—to send a text message
   Multimedia message—to send a multimedia message (MMS)
   E-mail—to send an e-mail. If you have not set up your e-mail account, you are prompted to do so. To start creating the e-mail settings with the mailbox guide, select **Start**.
2 In the **To** field, press the joystick to select recipients or groups from contacts, or enter the recipient's phone number or e-mail address. Press ∗ to add a semicolon (;) that separates the recipients. You can also copy and paste the number or address from the clipboard.

   ☀ **Tip!** Scroll to a contact, and press the joystick to mark it. You can mark several recipients at a time.

3 In the **Subject** field, enter the subject of a multimedia message or e-mail. To change the fields that are visible, select **Options** > **Address fields**.
4 Move the joystick down to move to the message field and write the message. To use a template, select **Options** > **Insert** or **Insert object** > **Template**.

5 To add a media object to a multimedia message, select **Options** > **Insert object** > **Image**, **Sound clip**, or **Video clip**. When sound is added, the 🎵 icon is shown. You may not be able to send video clips that are saved in the .mp4 format in a multimedia message. To change the format in which recorded videos are saved, see 'Video settings', p. 58.
6 To take a new picture or record sound or video for a multimedia message, select **Insert new** > **Image**, **Sound clip**, or **Video clip**. To insert a new slide to the message, select **Slide**.
   To see what the multimedia message looks like, select **Options** > **Preview**.

7 To add an attachment to an e-mail, select **Options** > **Insert** > **Image**, **Sound clip**, **Video clip** or **Note**. E-mail attachments are indicated by 📎.

   ☀ **Tip!** To send files other than sounds and notes as attachments, open the appropriate application, and select **Send** > **Via e-mail**, if available.

8 To send the message, select **Options** > **Send**, or press ☎ .

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Your device supports the sending of text messages beyond the character limit for a single message. Longer messages will be sent as a series of two or more messages. Your service provider may charge accordingly. Characters that use accents or other marks, and characters from some language options like Chinese, take up more space limiting the number of characters that can be sent in a single message. In the navigation bar, you can see the message length indicator counting backwards. For example, 10 (2) means that you can still add 10 characters for the text to be sent as two messages.

E-mail messages are automatically placed in **Outbox** before sending. If sending does not succeed, the e-mail is left in the **Outbox**.

☼ **Tip!** In **Messaging** you can also create presentations and send them in a multimedia message. In the multimedia message editor view, select **Options** > **Create presentation** (shown only if **MMS creation mode** is set to **Guided** or **Free**). See 'Multimedia messages', p. 50.

☼ **Tip!** When you send a multimedia message to an e-mail address or a device that supports the receiving of large images, use the larger image size. If you are not sure of the receiving device, or the network does not support sending large files, it is recommended that you use a smaller image size or a sound clip that is no longer than 15 seconds. To change the setting, select

Options > **Settings** > **Multimedia message** > **Image size** in the **Messaging** main view.

📵 Note: The indicators showing that the message has been sent indicate that the message has been sent by your device to the message center number programmed into your device. This is not an indication that the message has been received at the intended destination. For more details about messaging services, check with your service provider.

Receive MMS and e-mail settings

You may receive the settings in a text message from your network operator or service provider. See 'Data and settings', p. 44.

For availability of and subscription to data services, contact your network operator or service provider. Follow the instructions given by your service provider.

Enter the MMS settings manually:
1 Press 🔧 , and select **Tools** > **Settings** > **Connection** > **Access points**, and define the settings for a multimedia messaging access point. See 'Connection', p. 103.
2 Press 🔧 , and select **Messaging** > **Options** > **Settings** > **Multim. msg.** > **Access point in use** and

the access point you created as the preferred connection. See also 'Multimedia messages', p. 50.

Before you can send, receive, retrieve, reply to, and forward e-mail, you must do the following:

- Configure an Internet access point (IAP) correctly. See 'Connection', p. 103.
- Define your e-mail settings correctly. If you select **Mailbox** in the **Messag.** main view and have not set up your e-mail account, you are prompted to do so. To start creating the e-mail settings with the mailbox guide, select **Start**. See 'E-mail', p. 51.
  You must have a separate e-mail account. Follow the instructions given by your remote mailbox and Internet service provider (ISP).

Inbox—receive messages

Inbox folder has the following indicators:

⊠—Unread text message.

⊡—Unread multimedia message.

⊛—Data received through Bluetooth connectivity.

When you receive a message, ⊠ and the text **1 new message** are shown in the standby mode. To open the message, select **Show**. To open a message in **Inbox**, scroll to it, and press the joystick.

To reply to a received message, select **Options** > **Reply**.

Multimedia messages

Important: Excercise caution when opening messages. Multimedia message objects may contain malicious software or otherwise be harmful to your device or PC.

You may receive a notification that a multimedia message is waiting in the multimedia message center. To start a packet data connection to retrieve the message to your device, select **Options** > **Retrieve**.

When you open a multimedia message (⊡), you may see an image and a message. 📇 is shown if sound is included, or 🖉 if video is included. To play the sound or the video, select the indicator.

To see what kinds of media objects have been included in the multimedia message, open the message, and select **Options** > **Objects**.

If the message includes a multimedia presentation, 📇 is displayed. To play the presentation, select the indicator.

Data and settings

Your device can receive many kinds of messages that contain data:

Configuration message—You may receive settings from your network operator, service provider, or company information management department in a configuration message. To save the settings, select **Options** > **Save all**.

Business card—To save the information to **Contacts**, select **Options** > **Save business card**. Certificates or sound files attached to the business card are not saved.

Ringing tone—To save the ringing tone, select **Options** > **Save**.

Operat. logo—To have the logo shown in the standby mode instead of the network operator's own identification, select **Options** > **Save**.

Calen. entry—To save the invitation, select **Options** > **Save to Calendar**.

Web message—To save the bookmark to the bookmarks list in Web, select **Options** > **Add to bookmarks**. If the message contains both access point settings and bookmarks, to save the data, select **Options** > **Save all**.

E-mail notif.—The note tells you how many new e-mail messages you have in your remote mailbox. An extended notification may list more detailed information.

Web service messages

Web service messages ( ) are notifications (for example, news headlines) and may contain a text message or a link.

For availability and subscription, contact your service provider.

My folders

In **My folders**, you can organise your messages into folders, create new folders, and rename and delete folders.

☆ **Tip!** You can use texts in the templates folder to avoid rewriting messages that you send often.

Mailbox

If you select **Mailbox** and have not set up your e-mail account, you are prompted to do so. To start creating the e-mail settings with the mailbox guide, select **Start**. See also 'E-mail', p. 51.

When you create a new mailbox, the name you give to the mailbox replaces **Mailbox** in the **Messaging** main view. You can have up to six mailboxes.

Open the mailbox

When you open the mailbox, the device asks if you want to connect to the mailbox (**Connect to mailbox?**).

To connect to your mailbox and retrieve new e-mail headings or messages, select **Yes**. When you view messages online, you are continuously connected to a

remote mailbox using a data connection. See also 'Connection', p. 103.

To view previously retrieved e-mail messages offline, select **No**. When you view e-mail messages offline, your device is not connected to the remote mailbox.

Retrieve e-mail messages

If you are offline, select **Options** > **Connect** to start a connection to a remote mailbox.

Important: Excercise caution when opening messages. E-mail messages may contain malicious software or otherwise be harmful to your device or PC.

1 When you have an open connection to a remote mailbox, select **Options** > **Retrieve e-mail** and one of the following:
    New—to retrieve all new e-mail messages
    Selected—to retrieve only the e-mail messages that have been marked
    All—to retrieve all messages from the mailbox
    To stop retrieving messages, select **Cancel**.
2 After you retrieve the e-mail messages, you can continue viewing them online, or select **Options** > **Disconnect** to close the connection and view the e-mail messages offline.
    E-mail status indicators:

The new e-mail (offline or online mode) has not been retrieved to your device.

The new e-mail has been retrieved to your device.

The e-mail message has been read, and it has not been retrieved to your device.

The e-mail message has been read.

The e-mail heading has been read and the message content has been deleted from the device.
3 To open an e-mail message, press the joystick. If the e-mail message has not been retrieved and you are offline, you are asked if you want to retrieve this message from the mailbox.

To view e-mail attachments, open a message that has the attachment indicator , and select **Options** > **Attachments**. If the attachment has a dimmed indicator, it has not been retrieved to the device; select **Options** > **Retrieve**. In the **Attachments** view, you can retrieve, open, save, or remove attachments. You can also send attachments using Bluetooth connectivity.

   Tip! If your mailbox uses the IMAP4 protocol, you can define how many messages to retrieve, and whether to retrieve the attachments. With the POP3 protocol, the options are **Headers only**, **Size limit**, or **Msgs. & attachs.**.

Retrieve e-mail messages automatically

To retrieve messages automatically, select **Options** > **E-mail settings** > **Automatic retrieval** > **Header retrieval** > **Always enabled** or **Only in home net.**, and define when and how often the messages are retrieved.

Retrieving e-mail messages automatically may increase your call costs due to the data traffic.

Delete e-mail messages

To delete the contents of an e-mail message from the device while still retaining it in the remote mailbox, select **Options** > **Delete**. In **Delete msg. from:**, select **Phone only**.

The device mirrors the e-mail headings in the remote mailbox. Although you delete the message content, the e-mail heading stays in your device. If you want to remove the heading as well, you must first delete the e-mail message from your remote mailbox, then make a connection from your device to the remote mailbox again to update the status.

To delete an e-mail from the device and the remote mailbox, select **Options** > **Delete**. In **Delete msg. from:**, select **Phone and server**.

If you are offline, the e-mail is deleted first from your device. During the next connection to the remote mailbox, it is automatically deleted from the remote mailbox. If you are using the POP3 protocol, messages marked to be deleted are removed only after you have closed the connection to the remote mailbox.

To cancel deleting an e-mail from the device and server, scroll to an e-mail that has been marked to be deleted during the next connection ( ), and select **Options** > **Restore**.

Disconnect from the mailbox

When you are online, select **Options** > **Disconnect** to end the packet data connection to the remote mailbox.

Tip! You can also leave your mailbox connection open and the new e-mails (**Headers only** as default) will be retrieved from the remote mailbox to your device automatically (only if the IMAP IDLE function is supported by your server). To leave the messaging application open in the background, press twice. Leaving the connection open may increase your call costs due to the data traffic.

View e-mail messages when offline

When you open **Mailbox** the next time and you want to view and read the e-mail messages offline, answer **No** to the **Connect to mailbox?** query. You can read the

previously retrieved e-mail headings, the retrieved e-mail messages, or both. You can also write new, reply to, or forward e-mail to be sent the next time you connect to the mailbox.

Outbox—messages waiting to be sent

Outbox is a temporary storage place for messages waiting to be sent.

Status of the messages in **Outbox** are as follows:

Sending—A connection is being made, and the message is being sent.

Waiting/**Queued**—The message will be sent when previous messages of a similar type have been sent.

Resend at (time)—The device will try to send the message again after a time-out period. Select **Send** to restart the sending immediately.

Deferred—You can set documents to be on hold while they are in **Outbox**. Scroll to a message that is being sent, and select **Options** > **Defer sending**.

Failed—The maximum number of sending attempts has been reached. Sending has failed. If you were trying to send a text message, open the message, and check that the Sending options are correct.

☼ **Example:** Messages are placed in the outbox, for example, when your device is outside network coverage. You can also schedule e-mail messages to be sent the next time you connect to your remote mailbox.

View messages on a SIM card

Before you can view SIM messages, you must copy them to a folder in your device.
1 In the **Messag.** main view, select **Options** > **SIM messages**.
2 Select **Options** > **Mark/Unmark** > **Mark** or **Mark all** to mark messages.
3 Select **Options** > **Copy**. A list of folders opens.
4 To start copying, select a folder and **OK**. To view the messages, open the folder.

Messaging settings

Fill in all fields marked with **Must be defined** or with a red asterisk. Follow the instructions given by your service provider. You may also obtain settings from your service provider in a configuration message.

Some or all message centers, access points or other settings may be preset for your device by your service provider or network operator, and you may not be able to change, create, edit, or remove them.

Text messages

Press ![icon] , and select **Messag.** > **Options** > **Settings** > **Text msg.** and from the following:

Message centres—View a list of all text message centers that have been defined.

Msg. centre in use—Select which message center is used to deliver text messages.

SMS e-mail—To send and receive text messages to and from e-mail addresses, enter the e-mail gateway and e-mail message center.

Character encoding— To use character conversion to another encoding system when available, select **Reduced support**.

Receive report—Select whether the network sends delivery reports on your messages (network service).

Message validity—Select how long the message center resends your message if the first attempt fails (network service). If the recipient cannot be reached within the validity period, the message is deleted from the message center.

Message sent as—Change this option only if you are sure that your message center is able to convert text messages into these other formats. Contact your network operator.

Preferred conn.—Select the connection used for sending text messages: GSM network or packet data, if supported by the network. See 'Connection', p. 103.

Reply via same ctr.—Select whether you want the reply message to be sent using the same text message center number (network service).

Add new and edit text message centers

Note that if you change your SIM card, the list of available text message centers is updated according to the centers on the new SIM card. Message centers may also be preset in your device by your service provider, and you may not be able to create, edit, or delete them.

1 Select **Message centres** > **Options** > **New msg. centre** or **Edit**.
2 Press the joystick, write a name for the message center, and select **OK**.
3 Scroll down, press the joystick, and write the number of the text message center. You receive the number from your service provider.
4 Select **OK**.
5 To use the new settings, go back to the settings view. Scroll to **Msg. centre in use**, and select the new message center.

Multimedia messages

Press 🎯 , and select **Messag.** > **Options** > **Settings** > **Multimedia message** and from the following:

Image size—Define the size of the image in a multimedia message: **Original** (shown only when the **MMS creation mode** is set to **Guided** or **Free**), **Small**, or **Large**.

MMS creation mode—If you select **Guided**, the device informs you if you try to send a message that may not be supported by the recipient. Select **Restricted**; the device prevents you from sending messages that may not be supported.

Access point in use—Select which access point is used as the preferred connection for the multimedia message center.

Multimedia retrieval—Select how you want to receive multimedia messages. To receive multimedia messages automatically in your home network, select **Auto. in home network**. Outside your home network, you receive a notification that there is multimedia message that you can retrieve in the multimedia message center.

When you are outside your home network, sending and receiving multimedia messages may cost you more.

If you select **Multimedia retrieval** > **Always automatic**, your device automatically makes an active packet data connection to retrieve the message both in and outside your home network.

Allow anon. msgs.—Select whether you want to reject messages from an anonymous sender.

Receive adverts—Define whether you want to receive multimedia message advertisements.

Receive report—Select whether you want the status of the sent message to be shown in the log (network service). Receiving a delivery report of a multimedia message that has been sent to an e-mail address may not be possible.

Deny report sending—Select whether you want to deny your device sending delivery reports of received multimedia messages.

Message validity—Select how long the message center resends your message if the first attempt fails (network service). If the recipient cannot be reached within the validity period, the message is deleted from the message center.

☼ **Tip!** You may also obtain the multimedia and e-mail settings from your service provider in a configuration message. Contact your service provider for more information. See 'Data and settings', p. 44.

E-mail

Press , and select **Messag.** > **Options** > **Settings** > **E-mail** and from the following:

Mailboxes—Select a mailbox to change the following settings: **Connection settings**, **User settings**, **Retrieval settings**, and **Automatic retrieval**.

Mailbox in use— Select which mailbox you want to use for sending e-mail.

To create a new mailbox, select **Options** > **New mailbox** in the mailbox main view.

Connection settings

To edit the settings for the e-mail you receive, select **Incoming e-mail** and from the following:

User name—Enter your user name, given to you by your service provider.

Password—Enter your password. If you leave this field blank, you are prompted for the password when you try to connect to your remote mailbox.

Incoming mail serv.—Enter the IP address or host name of the mail server that receives your e-mail.

Access point in use—Select an Internet access point (IAP). See 'Connection', p. 103.

Mailbox name—Enter a name for the mailbox.

Mailbox type—Defines the e-mail protocol that your remote mailbox service provider recommends. The options are **POP3** and **IMAP4**. This setting can be selected only once and cannot be changed if you have saved or exited from the mailbox settings. If you use the POP3 protocol, e-mail messages are not updated automatically when you are online. To see the latest e-mail messages, you must disconnect and make a new connection to your mailbox.

Security (ports)—Select the security option used to secure the connection to the remote mailbox.

Port—Define a port for the connection.

APOP secure login (for POP3 only)—Use with the POP3 protocol to encrypt the sending of passwords to the remote e-mail server while connecting to the mailbox.

To edit the settings for the e-mail you send, select **Outgoing e-mail** and from the following:

My e-mail address—Enter the e-mail address given to you by your service provider. Replies to your messages are sent to this address.

Outgoing mail serv.—Enter the IP address or host name of the mail server that sends your e-mail. You may only be able to use the outgoing server of your network operator. Contact your service provider for more information.

Access point in use—Select an Internet access point (IAP). See 'Connection', p. 103.

The settings for **User name**, **Password**, **Security (ports)**, and **Port** are similar to the ones in **Incoming e-mail**.

User settings

My name—Enter your own name. Your name replaces your e-mail address in the recipient's device when the recipient's device supports this function.

Send message—Define how e-mail is sent from your device. Select **Immediately** for the device to connect to the mailbox when you select **Send message**. If you select **During next conn.**, e-mail is sent when the connection to the remote mailbox is available.

Send copy to self—Select whether you want to save a copy of the e-mail to your remote mailbox and to the address defined in **My e-mail address**.

Include signature—Select whether you want to attach a signature to your e-mail messages.

New e-mail alerts—Select whether you want to receive the new e-mail indications, a tone and a note, when new mail is received to the mailbox.

Retrieval settings

E-mail to retrieve—Define which parts of the e-mail are retrieved: **Headers only**, **Size limit**, **Messages** (for IMAP4 only), or **Msgs. & attachs.**.

Retrieval amount—Define how many new e-mail messages are retrieved to the mailbox.

IMAP4 folder path (for IMAP4 only)—Define the folder path for folders to be subscribed.

Folder subscriptions (for IMAP4 only)—Subscribe to other folders in the remote mailbox and retrieve content from those folders.

Automatic retrieval

Header retrieval—Select whether you want the device to retrieve new e-mail automatically. You can define when, and how often, the messages are retrieved.

Retrieving e-mail messages automatically may increase your call costs due to the data traffic.

Web service messages

Press ⟨🎮⟩ , and select **Messaging** > **Options** > **Settings** > **Service message**. Select whether you want to receive service messages. If you want to set the device to automatically activate the browser and start a network connection to retrieve content when you receive a service message, select **Download messages** > **Automatically**.

Cell broadcast

Check the available topics and related topic numbers with your service provider. Press 𝄞 , and select **Messaging** > **Options** > **Settings** > **Cell broadcast** and from the following:

Reception—Select whether you want to receive cell broadcast messages.

Language—Select the languages in which you want to receive messages: **All**, **Selected**, or **Other**.

Topic detection—Select whether the device automatically searches for new topic numbers, and saves the new numbers without a name to the topic list.

Other settings

Press 𝄞 , and select **Messaging** > **Options** > **Settings** > **Other** and from the following:

Save sent messages—Select whether you want to save a copy of the text messages, multimedia messages, or e-mail that you send to the **Sent** folder.

No. of saved msgs.—Define how many sent messages are saved to the **Sent** folder at a time. The default limit is 20 messages. When the limit is reached, the oldest message is deleted.

Memory in use—Select the memory where you want to save your messages: **Phone memory** or **Hard drive**.

Media applications

Camera

The Nokia N91 supports an image capture resolution of 1600 x 1200 pixels. The image resolution in these materials may appear different.

To activate the camera, press in the Standby view, and select **Camera**. The camera starts, and you can see the view to be captured.

If the camera is in **Video** mode, move the joystick to the left to start **Image** mode.

The images are automatically saved in the gallery in .jpg format. You can send images in a multimedia message as an e-mail attachment or by using Bluetooth connectivity.

Take pictures

To take a picture, press the joystick. Do not move the device before the image is saved. The image is saved automatically in the **Images** folder of **Gallery**. See 'Gallery', p. 58.

Saving the captured image may take longer if you change the zoom, lighting, or colour settings.

When taking a picture, note the following:

- To keep the camera still, use both hands.
- To adjust colour before taking a picture, select **Options** > **Adjust** > **White balance** or **Colour tone**. See 'Adjust colour', p. 55.
- The quality of a zoomed picture is lower than that of a nonzoomed picture.
- The camera goes into battery saving mode if there are no key presses for a moment. To continue taking pictures, press the joystick.

After the image is taken:

- To discard the image, select **Options** > **Delete**.
- To send the image **Via multimedia**, **Via e-mail**, or **Via Bluetooth**, select **Options** > **Send**. For more information, see 'Messaging', p. 38 and 'Bluetooth connectivity', p. 90.
- To send an image to the other party during an active call, select **Options** > **Send MMS**.

Exposure modes

- To set the camera to take six pictures in a sequence, select **Options** > **Sequence mode** . You can also use the sequence mode with the **Self-timer**. See 'You in the

picture—self-timer', p. 55. The pictures are automatically saved in **Gallery**.

After you take the pictures, they are shown in a grid on the main display. To view a picture, press the joystick to open it.

- To set the camera to take pictures in low light conditions, select **Options** > **Night mode**

You in the picture—self-timer

Use the self-timer to delay the capture so that you can include yourself in the picture. To set the self-timer delay, select **Options** > **Self-timer** > **10 seconds**, **20 seconds**, or **30 seconds**. To activate the self-timer, select **Activate**. The self-timer indicator (🕐) blinks and the device beeps when the timer is running. The camera takes the picture after the selected delay elapses. You can also use the **Self-timer** in the sequence mode. See 'Exposure modes', p. 54.

Adjust colour

To enable the camera to reproduce colours more accurately, or to add effects to your pictures or videos, select **Options** > **Adjust**, and select from the following options:

White balance—Select the current lighting condition from the list. This allows the camera to reproduce colours more accurately.

Colour tone—Select a colour effect from the list.

The screen display changes to match any settings made, showing you how the change affects the pictures or videos.

The settings return to the default settings when you close the camera.

Adjust still image camera settings

To change the main settings, select **Options** > **Settings**. These settings remain the same until you change them. Select from the following options:

Image quality—**High**, **Normal**, or **Basic**. The better the image quality, the more memory the image consumes.

Image resolution—Select the resolution you want to use. The higher the image resolution, the more memory the image consumes. The quality of a zoomed picture is lower than that of a nonzoomed picture.

Default image name— Set a name for the pictures taken. For example, if you set Beach as the default name, Camera will name the pictures you take Beach, Beach(001), Beach(002), and so on, until you change the setting again.

Show captured img.—Select **Yes** if you want to see the captured image after it is taken, or **No** if you want to continue taking pictures immediately.

Memory in use—Select where to store your images.

Media applications

55

Viewfinder

Viewfinder shows the following:

The Memory in use indicator (1) shows where the images are currently stored: in device memory 📱 or in hard drive 📷 .

The images counter (2) on top of the viewfinder shows an estimate of how many images, depending on the selected image quality, can fit in the remaining memory of your device.

—The zoom indicator (3) shows the zoom level. Move the joystick up and down to zoom in and zoom out.

◖—The **Night mode** indicator (4) shows that the camera has been optimized for low-light photography.

▣ᵢ—The **Sequence mode** indicator (5) shows that the camera is in sequence mode.

◔—The self-timer indicator (6) shows that the self-timer is activated. See 'You in the picture—self-timer', p. 55.

Tips on taking good photographs

Picture quality

Use the appropriate picture quality. The camera has three picture quality modes (**High**, **Normal**, and **Basic**). Use the **High** setting to make sure that the camera produces the best picture quality available. Note however, that better picture quality requires more storage space. For MMS and e-mail attachments it may be necessary to use **Normal**, or **Basic** setting. You can define the quality in **Options** > **Settings**.

Background

Use a simple background. For portraits and other pictures with people, avoid having your subject in front of a cluttered, complex background that may distract attention from the subject. Move the camera, or the subject, when these conditions cannot be met. Move the camera closer to the object to take clearer portraits.

Depth

When shooting landscapes and sceneries, add depth to your pictures by placing objects in the foreground. If the foreground object is too close to the camera, it may be blurred.

Lighting conditions

Changing the source, amount, and direction of light can change photographs dramatically. Here are some typical lighting conditions:

- **Light source behind the subject.** Avoid placing your subject in front of a strong light source. If the light source is behind the subject or visible in the display, the resulting picture may have weak contrast, may be too dark, and may contain unwanted light effects.
- **Sidelit subject.** Strong side light gives a dramatic effect but may be too harsh, resulting in too much contrast.
- **Light source in front of the subject.** Harsh sunlight may cause the subjects to squint their eyes. The contrast may also be too high.
- **Optimal lighting** is found in situations where there is plenty of diffused, soft light available, for example, on a bright, partially cloudy day or on a sunny day in the shadow of trees.

Record videos

To activate the camera, Press ⌘, and select **Camera**. The camera starts, and you can see the view to be captured.

If the camera is in **Image** mode, open the video recorder view by moving the joystick right.

To adjust colour before recording a video, select **Options** > **Adjust** > **White balance** or **Colour tone**. See 'Adjust colour', p. 55.

1 Press the joystick to start recording. The red record icon ● is shown and a tone sounds, indicating to the subject that video is being recorded.
2 To pause recording at any time, select **Pause**. The pause icon ❚❚ blinks on the display. Video recording automatically stops if the recording is set to pause and there are no key presses within a minute.
3 Select **Continue** to resume recording.
4 Select **Stop** to stop recording. The video clip is automatically saved to the **Video clips** folder of **Gallery**. See 'Gallery', p. 58.

Viewfinder indicators show the following:

⌀ —The microphone indicator shows that the microphone is muted.

—The zoom indicator shows the zoom level. Move the joystick up and down to zoom in and out.

After a video clip is recorded:
- To immediately play the video clip you just recorded, select **Options** > **Play**.
- To discard the video, select **Options** > **Delete**.

- To return to the viewfinder to record a new video, press the joystick.
- To send the video, select **Options** > **Send** > **Via multimedia**, **Via e-mail**, or **Via Bluetooth**. For more information, see 'Messaging', p. 38 and 'Bluetooth connectivity', p. 90.
- To send a video clip to the other party during an active call, select **Options** > **Send MMS**.

Video settings

There are two kinds of settings for the video recorder: temporary settings and default settings. To adjust contrast, brightness and colour settings, see 'Adjust colour', p. 55. The temporaray settings return to the default settings after you close the camera, but the default settings remain the same until you change them again. To change the default settings, select **Options** > **Settings** and from the following:

Length—To optimize video clip for MMS, select **Short**.

Video resolution—**High**(CIF, 352x288), **Normal**(QCIF 176x144), or **Basic** (SubQCIF 128x96). The higher the resolution, the more memory the video consumes.

Default video name:—Set a name for the video taken. Select **Date** or **Text**. If you select **Text**, the videos are named in the format Video by default. For example, if you set Beach as the default name, Camera will name the video clips you take Beach, Beach(01), Beach(02), and so on, until you change the setting again.

Gallery

To store and organise your images, video clips, sound clips, playlists, and streaming links, press , and select **Media** > **Gallery**. To open the gallery in the camcorder select **Options** > **Go to Gallery**.

Select **Images**, **Video clips**, **Tracks**, **Sound clips**, **Streaming links**, or **All files**, and press the joystick to open it.

You can browse and open folders, and mark, copy, and move items to folders. You can also create folders, and mark, copy, and add items to folders. See 'Folders', p. 59.

> ☼ **Tip!** You can transfer images from your device to a compatible PC with Nokia Phone Browser available in Nokia PC Suite. See the CD-ROM supplied with your device.

Press the joystick to open a file. Video clips, .ram files, and streaming links are opened and played in the RealPlayer application and sound clips in the Music Player application. For more information, see 'RealPlayer™', p. 60, 'Music player', p.18. and 'View images and video clips', p. 59.

To rename a file, select a file and **Options** > **Rename**.

To download files into **Gallery** in one of the main folders using the browser, select **Graphic downl.** or **Video downl.**, **Track downl.**, or **Sound downl.**. The browser opens, and you can select a bookmark from which the site can download.

View images and video clips

Photos taken are stored in the **Images** folder and video clips are stored in the **Video clips** folder in **Gallery**. Images and video clips can also be sent to you in a multimedia message, as an e-mail attachment, or through a Bluetooth connection. To be able to view a received image or video clip in the gallery or in the media player, you must save it.

Open the **Images** or **Video clips** folder in **Gallery**. To browse the files, scroll up or down and press the joystick to open a file for viewing.

To delete an image or a video clip, press ⊏ .

Presentations

With presentations, you can view SVG (scalable vector graphics) files, such as cartoons and maps. SVG images maintain their appearance when printed or viewed with different screen sizes and resolutions. To view SVG files,

select the **Presentations** folder, scroll to an image, and select **Options** > **Play**.

To zoom in, press **5** . To zoom out, press **0** .

To switch between full screen and normal screen, press *****.

Folders

With folders you can conveniently manage your images and video clips.

To create a new folder, select **Options** > **Organise** > **New folder**. Enter a name for the folder, and select **OK**.

To add a picture or a video clip to an folder in the gallery, scroll to a picture or video clip, and select **Options** > **Organise** > **Copy to hard drive** / **Copy to phone mem.** or **Move to hard drive** / **Move to phone mem.** depending on the current location of the file. A list of folders opens. Select the folder to which you want to add the picture or video clip, and press the joystick.

To remove a file from an folder, press ⊏ .

Music player

See 'Music player' on p.18 for details.

RealPlayer™

Press $\mathcal{G}$, and select **Media** > **RealPlayer**. With **RealPlayer**, you can play video clips or stream media files over the air. You can activate a streaming link when you browse Web pages or store it in the hard drive.

RealPlayer supports files with extensions such as .awb or .m4a, but not all the variations of file formats. For example, some .mp4 files may include content that is not compliant with 3GPP standards and, therefore, cannot be opened.

>✎ **Tip!** You can transfer music files from your device to your hard drive with Nokia PC Suite. See the CD-ROM supplied with your device.

Play video

1 To play a media file stored in phone memory, or on the hard drive, select **Options** > **Open** and select:
   Most recent clips—To play one of the last six files played in **RealPlayer**.
   Saved clip—To play a file saved in **Gallery**. See 'Gallery', p. 58.
2 Scroll to a file, and press the joystick to play the file.

>✎ **Tip!** To view a video clip in full screen mode, press
  2 . Press again to change back to normal screen mode.

Stream content over the air

Many service providers require you to use an Internet access point (IAP) for your default access point. Other service providers allow you to use a WAP access point.

The access points may be configured when you first start your device.

Contact your service provider for more information.

In **RealPlayer**, you can only open an rtsp:// URL address. However, **RealPlayer** will recognise an http link to a .ram file.

To stream content over the air, select a streaming link saved in **Gallery**, on a Web page, or received in a text message or multimedia message. Before live content begins streaming, your device connects to the site and starts loading the content. The content is not saved in your device.

Receive RealPlayer settings

You may receive **RealPlayer** settings in a special text message from the network operator or service provider. See 'Data and settings', p. 44. For more information, contact your network operator or service provider.

Change the RealPlayer settings

Select **Options** > **Settings** and from the following:

Video—To adjust the contrast of the video and to have RealPlayer automatically repeat video clips after they finish playing.

Connection—To select whether to use a proxy server, change the default access point, and set the port range used when connecting. Contact your service provider for the correct settings.

Proxy sett.:
- Use proxy—Select Yes.
- Proxy serv. address—Enter the IP address of the proxy server.
- Proxy port number—Enter the port number of the proxy server.

Glossary: Proxy servers are intermediate servers between media servers and their users. Some service providers use them to provide additional security or speed up access to browser pages that contain sound or video clips.

Netw. sett.:
- Default access point—Scroll to the access point you want to use to connect to the Internet, and press the joystick.
- Online time—Set the time for RealPlayer to disconnect from the network when you have paused a media clip playing through a network link, select User defined, and press the joystick. Enter the time, and select OK.
- Lowest UDP port—Enter the lowest port number of the servers port range. The minimum value is 6970.
- Highest UDP port—Enter the highest port number of the servers port range. The maximum value is 32000.

Select Options > Advanced settings to edit the bandwidth values for different networks.

FlashPlayer

With Flash player, you can view, play, and interact with flash files made for mobile devices.

Organise flash files

Press 🎯 , and select Media >Flash Player. Scroll right.

To open a folder or play a flash file, scroll to it, and press the joystick.

To copy a flash file to another folder, select Options > Organise > Copy to folder.

To move a flash file to another folder, select Options > Organise > Move to folder

To create a folder to organize your flash files, select Options > Organise > New folder.

The available options may vary.

To delete a flash file, scroll to it, and press ⬚ .

Play flash files

Press 🔊 , and select **Media** >**Flash Player**. Scroll to a flash file and press the joystick.

Select **Options** and from the following:

Note: Options may not be available in all flash files.

- **Pause** to pause the playback.
- **Stop** to stop the playback.
- **Volume** to adjust the playback volume. To increase or decrease the volume use the side volume key on the left side of the device.
- **Quality** to select the playback quality. If the playback appears uneven and slow, change the **Quality** setting to **Normal** or **Low**.
- **Full screen** to play the file using the entire display. To return to the normal screen, select **Normal screen**. Even though not visible in full screen, the key functions may still be available when you press either key below the display.
- **Fit to screen** to play the file in its original size after zooming it.
- **Pan mode on** to be able to move around the display with the joystick when you have zoomed in.

The available options may vary.

Recorder

Press 🔊 , and select **Media** > **Recorder** to record telephone conversations and voice memos. If you are recording a telephone conversation, both parties hear a tone every 5 seconds during recording.

The recorder cannot be used when a data call or GPRS connection is active.

Radio

Press 🔊 , and select **Media** > **Radio**. You can use the application as a traditional FM radio with automatic tuning and saved stations, or with parallel visual information related to the radio program on the display, if you tune to stations that offer Visual Radio service. The Visual Radio service uses packet data (network service). You can listen to the FM radio while using other applications.

If you do not have access to the Visual Radio service, the operators and radio stations in your area do not necessarily

support Visual Radio. The Visual Radio service may not be available in all areas and countries.

You can normally make a call or answer an incoming call while listening to the radio. The radio is muted when there is an active call.

The radio selects the used frequency band based on the country information received from the network. If this information is not available, you may be asked to select the region where you are located, or you can select the region in the Visual Radio settings.

Listen to the radio

Note that the quality of the radio broadcast depends on the coverage of the radio station in that particular area.

The FM radio depends on an antenna other than the wireless device antenna. A compatible headset or enhancement needs to be attached to the device for the FM radio to function properly.

Press $\mathcal{G}$, and select **Media** > **Radio**. To start a station search, select $\boxed{}$ or $\boxed{}$ and press the joystick. To change the frequency manually, select **Options** > **Manual tuning**.

If you have previously saved radio stations, select $\boxed{\text{I}}$ or $\boxed{\text{I}}$ on the display and press the joystick to go to the next or previous saved station, or press the corresponding number key to select the memory location of a station.

To adjust the volume, press and hold $\boxed{}$ or $\boxed{}$ on the left side of the device. To listen to the radio using the loudspeaker, select **Options** > **Activate loudspeaker**.

To view available stations based on location, select **Options** > **Station directory** (network service).

To save the current tuned station to your station list, select **Options** > **Save station**. To open the list of your saved stations, select **Options** > **Stations**.

To return to the standby mode and leave the FM radio playing in the background, select **Options** > **Play in background**.

View visual content

To check availability and costs and to subscribe to the service, contact your network operator or service provider.

To view available visual content for a tuned station, select $\boxed{\text{o}}$ or **Options** > **Start visual service**. If the visual service ID has not been saved for the station, enter it, or select **Retrieve** to search for it in the station directory (network service).

When the connection to the visual service is established, the display shows the current visual content.

To adjust display settings for the visual content view, select **Options** > **Display settings**.

Saved stations

You can save up to 20 radio stations in the radio. To open your station list, select **Options** > **Stations**.

To listen to a saved station, select **Options** > **Station** > **Listen**. To view available visual content for a station with Visual Radio service, select **Options** > **Station** > **Start visual service**.

To change station details, select **Options** > **Station** > **Edit**.

Settings

Select **Options** > **Settings** and from the following:

Start-up tone—Select whether a tone is played when the application is started.

Auto-start service—Select **Yes** to have the Visual Radio service start automatically when you select a saved station that offers visual service.

Access point—Select the access point used for the data connection. You do not need an access point to use the application as an ordinary FM radio.

Current region—Select the region you are currently located in. This setting is displayed only if there was no network coverage when the application was started.

My own

🗨 IM—instant messaging (chat)

Press 🎮 , and select **My Own** > **IM**.

Instant messaging (network service) allows you to converse with other people using instant messages and join discussion forums (IM groups) with specific topics. Various service providers maintain IM servers that you can log in to after you register to an IM service. Service providers may differ in their support of features.

Select **Conversations** to start or continue a conversation with an IM user; **IM contacts** to create, edit, or view the online status of your IM contacts; **IM groups** to start or continue a group conversation with multiple IM users; or **Record. chats** to view a previous instant messaging session that you saved.

Check the availability of services, pricing, instructions, and fees with your network operator or service provider.

Receive IM settings

You must save the settings to access the service that you want to use. You may receive the settings in a special text message from the network operator or service provider that offers the IM service. See 'Data and settings', p. 44. You can also enter the settings manually. See 'IM server settings', p. 69.

Connect to an IM server

1. To connect to the IM server in use, open **IM**, and select **Options** > **Login**. To change the IM server in use and save new IM servers, see 'IM server settings', p. 69.
2. Enter your user ID and password, and press the joystick to log in. You obtain the user ID and password for the IM server from your service provider.
3. To log out, select **Options** > **Logout**.

Modify your IM settings

Select **Options** > **Settings** > **IM settings** and from the following:

Use screen name (shown only if IM groups are supported by the server)—To enter a nickname, select **Yes**.

Allow messages from—To allow messages from all, select **All**.